

## SECTION 3 Sampling Tasks and Procedures

### 3.1 Sampling Tasks in Year 1 (1999)

During the first year of the Long Term Monitoring Program (1999), the following sampling activities will be conducted:

- Surface water sampling, to document the distribution of PCBs in water during dry and wet weather conditions.
- Sediment sampling, to assess the distribution of PCB-contaminated sediments prior to remediation activities. Bedded sediment samples will be collected from several impoundments in the study area. Bedload sediment will be collected from additional locations, to qualitatively assess the importance of near-bottom transport of PCB-contaminated sediments under wet weather conditions. Settling sediment will be sampled using sediment traps at all impoundments (Ceresco, Morrow Pond, Plainwell Dam, Otsego City Dam, Otsego Dam, Trowbridge, and Lake Allegan).
- Resident fish sampling and caged channel catfish and semipermeable membrane device (SPMD) deployments, to assess bioavailable PCB concentrations. Resident adult carp and smallmouth bass will be collected to augment the data collected during previous trend monitoring activities on the Kalamazoo River. Contaminant data for resident adult fish provide an assessment of both ecological and human risk as well as an account of historic PCB contamination. In addition, yearling smallmouth bass and caged channel catfish and SPMDs will be collected from the same locations as the adult fish, to assess current bioavailable PCB concentrations.

The locations at which these sampling activities will take place are described in Section 3.2, and details of their execution are provided in Sections 3.3 to 3.6.

### 3.2 Sampling Locations

Samples of one type or another will be collected at 23 stations in 1999. These stations were selected with the following general objectives in mind:

- To bracket potential PCB source areas (e.g. Plainwell Dam impoundment)
- To resample locations sampled in previous studies, for trend analysis